

DA R025: DENTAL ASSISTING HEALTH EDUCATION

Originator

aderdiarian

Co-Contributor(s)
Name(s)

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College

Oxnard College

Discipline (CB01A)

DA - Dental Assistant

Course Number (CB01B)

R025

Course Title (CB02)

Dental Assisting Health Education

Banner/Short Title

DA Health Education

Credit Type

Credit

Start Term

Spring 2021

Catalog Course Description

This course teaches the principles and practices of prevention and control of dental diseases with emphasis on nutrition, plaque control, motivation, and chairside patient education.

Taxonomy of Programs (TOP) Code (CB03)

1240.10 - *Dental Assistant

Course Credit Status (CB04)

D (Credit - Degree Applicable)

Course Transfer Status (CB05) (select one only)

C (Not transferable)

Course Basic Skills Status (CB08)

N - The Course is Not a Basic Skills Course

SAM Priority Code (CB09)

C - Clearly Occupational

Course Cooperative Work Experience Education Status (CB10)

N - Is Not Part of a Cooperative Work Experience Education Program

Course Classification Status (CB11)

Y - Credit Course

Educational Assistance Class Instruction (Approved Special Class) (CB13)

N - The Course is Not an Approved Special Class

Course Prior to Transfer Level (CB21)

Y - Not Applicable

Course Noncredit Category (CB22)

Y - Credit Course

Funding Agency Category (CB23)

Y - Not Applicable (Funding Not Used)

Course Program Status (CB24)

1 - Program Applicable

General Education Status (CB25)

Y - Not Applicable

Support Course Status (CB26)

N - Course is not a support course

Field trips

Will not be required

Grading method

Letter Graded

Does this course require an instructional materials fee?

No

Repeatable for Credit

No

Is this course part of a family?

No

Units and Hours

Carnegie Unit Override

No

In-Class

Lecture

Minimum Contact/In-Class Lecture Hours

35

Maximum Contact/In-Class Lecture Hours

35

Activity

Laboratory

Total in-Class

Total in-Class

Total Minimum Contact/In-Class Hours

35

Total Maximum Contact/In-Class Hours

35

Outside-of-Class

Internship/Cooperative Work Experience

Paid

Unpaid

Total Outside-of-Class

Total Outside-of-Class

Minimum Outside-of-Class Hours

70

Maximum Outside-of-Class Hours

70

Total Student Learning

Total Student Learning

Total Minimum Student Learning Hours

105

Total Maximum Student Learning Hours

105

Minimum Units (CB07)

2

Maximum Units (CB06)

2

Prerequisites

DA R010 and DA R011 and DA R012 and DA R013 and DA R014 and DA R015

Corequisites

DA R020 and DA R021 and DA R022 and DA R023 and DA R024

Advisories on Recommended Preparation

High School Diploma or GED and ENGL R101 or R101H

Limitations on Enrollment

Current CPR certification for health care provider (American Heart Association) or professional rescuer (American Red Cross)

Proof of freedom from and immunity to communicable diseases

No acrylic or long nails in clinical settings

Current negative TB test or chest x-ray

Physical examination demonstrating general good health

No visible tattoos or visible body piercings except single studs in earlobes

Entrance Skills

Entrance Skills

Students need to be proficient in dental (oral) anatomy

Prerequisite Course Objectives

DA R010-Define periodontal disease

DA R010-Define dental caries

DA R010-List the high risk areas of cancer in the oral cavity

DA R013-Pronounce, define, and spell the key terms

DA R014-Illustrate the regions of head and neck anatomy

DA R014-Apply and record the dentition of primary dentition and permanent dentition

DA R014-Apply the skills of periodontal charting

DA R014-Label the major anatomical landmarks in the oral cavity

DA R014-Examine and record the findings of gingival tissue

DA R014-List the high risk areas of cancer in the oral cavity

Entrance Skills

Students must possess basic Biology knowledge in order to ensure proper infection control procedures

Prerequisite Course Objectives

- DA R010-List the OSHA regulations
- DA R011-Follow the rules of radiation safety for the protection of both patient and operator
- DA R013-Pronounce, define, and spell the key terms
- DA R013-Explain the difference between regulations and recommendations
- DA R013-Identify four professional sources for dental information
- DA R013-Name the premier infection-control educational organization in dentistry
- DA R013-Explain a primary difference between occupational safety and health administration and Centers for Disease Control
- DA R013-Describe the role of the Environmental Protection Agency in relation to dentistry
- DA R013-Describe the role of the Food and Drug Administration in relation to dentistry
- DA R013-Describe the role of the National Institutes of Health
- DA R014-Apply the OSHA regulations on the clinic floor

Entrance Skills

Communication is a skill needed for presenting home care instructions and delivering oral hygiene instructions to patients.

Prerequisite Course Objectives

- DA R010-Describe information on a standard medical history and how medical conditions and patient's medications alter or compromise dental treatment
- DA R010-Discuss and demonstrate the assistants role in diagnosis, data gathering and treatment
- DA R010-List the OSHA regulations
- DA R010-List the procedures of taking and recording vital signs and the ability to list normal limits
- DA R010-List the assistant role in diagnosis, data collection, and treatment planning
- DA R010-Describe the list regions of head and neck anatomy
- DA R010-List and describe the overview of dentition
- DA R010-List the specialties in dentistry and the role of the Dental Assistant in each specialty
- DA R011-Follow the rules of radiation safety for the protection of both patient and operator
- DA R012-List the various restorative materials used in dentistry
- DA R012-List the various types of materials used for esthetic dental restorations
- DA R012-Explain and know the finishing, polishing and cleansing materials used in dentistry
- DA R013-Pronounce, define, and spell the key terms
- DA R014-Apply information on a standard medical history and how medical conditions and patient's medications alter or compromise dental treatment
- DA R015-List indications and contraindications for a fixed prosthesis
- DA R015-Identify the steps for a diagnostic workup
- DA R015-Identify home care instructions for a removable and full denture
- DA R015-Discuss the indications for dental implants

Entrance Skills

Students must have adequate knowledge of dental terminology, infection control, patient education, preventive techniques, importance of vitals and how to take them, sterilization of equipment and instruments, and radiology.

Prerequisite Course Objectives

- DA R010-List the assistant role in diagnosis, data collection, and treatment planning
- DA R010-List and describe the overview of dentition
- DA R011-Explain the characteristics of radiation, physics, ionization, the electromagnetic spectrum, and the association of x-rays with matter
- DA R011-Identify the components of the x-ray machine and their individual functions
- DA R011-Describe the technical aspects of radiations production and the effects of adjusting the current voltage, and/or exposure time in the production of quality dental radiographs
- DA R011-Identify the parts of the dental films packet and correctly manipulate it
- DA R011-Demonstrate the use of the darkroom facilities and automatic processors in the development of radiographic film
- DA R011-Utilize different position indicating devices (PIDSS) when taking intraoral dental x-rays, using both the paralleling techniques
- DA R011-Identify and correct errors in film placement, using the rules of shadow casting and the inverse square law
- DA R012-List the various restorative materials used in dentistry
- DA R012-Describe the physical, electrical and mechanical properties of materials used in dentistry
- DA R012-Describe the role that preventative dental materials play in preventing oral disease
- DA R013-Pronounce, define, and spell the key terms
- DA R013-Explain the difference between regulations and recommendations
- DA R013-Identify four professional sources for dental information
- DA R013-Name the premier infection-control educational organization in dentistry
- DA R013-Describe the role of the Centers for Disease Control and Prevention
- DA R013-Explain a primary difference between occupational safety and health administration and Centers for Disease Control

DA R014-Apply information on a standard medical history and how medical conditions and patient's medications alter or compromise dental treatment
 DA R014-Apply the OSHA regulations on the clinic floor
 DA R015-List indications and contraindications for a fixed prosthesis
 DA R015-Identify the steps for a diagnostic workup
 DA R015-Differentiate between a partial and a denture

Requisite Justification

Requisite Type

Advisory

Requisite

High School Diploma or GED

Requisite Description

Credit program requisite (credit only)

Level of Scrutiny/Justification

Content review

Requisite Type

Advisory

Requisite

ENGL R101 or ENGL R101H

Requisite Description

Course not in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

DA R010

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

DA R011

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

DA R012

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

DA R013

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

DA R014

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

DA R015

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Corequisite

Requisite

DA R020

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Corequisite

Requisite

DA R021

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Corequisite

Requisite

DA R022

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Corequisite

Requisite

DA R023

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Corequisite

Requisite

DA R024

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Student Learning Outcomes (CSLOs)

Upon satisfactory completion of the course, students will be able to:

- | | |
|---|---|
| 1 | Recognize the effect of fluoride on teeth |
|---|---|

Course Objectives

Upon satisfactory completion of the course, students will be able to:

- | | |
|---|---|
| 1 | Prepare personalized chairside aids |
| 2 | Explain how to plan, implement, and evaluate individualized oral hygiene care |

- 3 Explain an understanding of the concept of preventive dentistry
- 4 Explain toothbrushes and tooth brushing techniques
- 5 Explain the use of auxiliary aids to maintain good oral hygiene
- 6 Define plaque and its relationship to periodontal disease and caries
- 7 Identify the type indices available
- 8 Name the types of fluorides available and their effect on teeth
- 9 Explain how human behavior and motivation are related the effectiveness of oral hygiene instructions
- 10 Define the objectives of patient health education
- 11 Describe plaque control methods adjusted for different types of patients
- 12 Adapt proper tooth brushing procedures to specific patients
- 13 Identify and explain the use of all auxiliary aids during patient education
- 14 Describe the etiology of periodontal disease and caries

Course Content

Lecture/Course Content

- 1. Overview of Dentition
 - a. Dentition
 - i. Maxillary
 - ii. Mandibular arch
 - iii. Quadrants
 - iv. Sextants
 - v. Types and function of teeth
 - b. Dentition
 - i. Primary
 - 1. Numbering system
 - ii. Mixed dentition
- 2. Prevention of Dental Disease
 - a. Bacterial Infection
 - i. Dental plaque
 - ii. Enamel structure
 - b. The Caries Process
 - i. Stages of caries development
 - ii. Root caries
 - iii. Recurrent caries
 - c. The Importance of Saliva
 - i. Explain the role of saliva in oral health
- 3. Introduction to Diseases of Teeth
 - a. The Caries Process
 - i. Stages of caries development
 - b. The Diagnosis of Caries
 - i. Explorer
 - ii. Radiograph
 - iii. Visual appearance
 - iv. Laser caries detector
 - v. Indicator dyes
- 4. Toothbrushes and Oral Aids
 - a. History of the Toothbrush
 - i. Compare and contrast natural and nylon bristles
 - ii. State the criteria for selecting a toothbrush for a patient
 - iii. List the elements influencing toothbrushes for handle and head profile and shape
 - iv. Discuss the importance of the following elements of toothbrushing
 - 1. Grasp of the brush
 - 2. Sequence of brushing
 - 3. Frequency of brushing
 - b. Techniques for Patient Education

- i. Procedural steps
 - 1. Brushing
 - 2. Flossing
 - 3. Using interdental aids
 - 4. Oral irrigation devices
 - 5. Mouthrinses
 - 6. Fluorides
- c. Toothbrushing Techniques
 - i. Bass
 - ii. Rolling stroke
 - iii. Modified stillman's
 - iv. Charters'
 - v. Fones'
 - vi. Horizontal/scrub
 - vii. Leonard
- 5. Diet Analysis and Counseling
 - a. The affect of diet and nutrition on oral conditions
 - b. The importance of nutrition to the dental assistant
 - c. The types of protein
 - d. The six areas of the Food Guide Pyramid
 - e. The recommended dietary (daily) allowance
- 6. Selective Indices and Caries Risk Assessment
 - a. The process of dental caries
 - b. The risk factor for dental caries
 - c. The candidate for caries risk testing
 - d. The benefits of caries risk assessment
 - e. The methods used for caries risk test
- 7. Fluorides
 - a. The role of a dental assistant in educating patients in the use of fluoride
 - b. The role of the dental assistant in the topical application of fluorides
 - c. The following as related to the action of fluoride with the tooth
 - d. The pre-eruption effect of fluoride
 - e. The types and uses of fluoride
 - f. The tray technique used in topical fluoride application in the dental office
 - g. The self-applied fluorides and their indications
 - h. The fluoride mouth rinses and their indications
 - i. The fluoride dentifrices and their indications
- 8. Understanding Human Behavior
 - a. The learning process and the four factors that influence it
 - b. The five elements that can affect the expanding or limiting of learning
 - c. The learning ladder and identify each of it six steps
 - d. The four factors associated with the process of motivation
- 9. Oral Physiotherapy Aids
 - a. Disclosing agents
 - b. Interproximal brushes
 - c. Toothpaste
 - d. Chemotherapeutic agents
 - e. Perio aids/piks
 - f. Rubber tips
 - g. Floss holder
 - h. Wooden interdental wedge
 - i. Floss threader
 - j. Water irrigation device
 - k. Denture brush
- 10. Plaque and Periodontal Disease
 - a. Identify two categories of tooth deposits
 - b. Identify the four types of soft deposits
 - c. The acquired pellicle

- d. The bacterial plaque
- e. The clinical aspects of bacterial plaque
- f. The significance of bacterial plaque as a factor in developing gingivitis and periodontal disease
- g. The bacteria associated with gingivitis and periodontitis

Laboratory or Activity Content

None

Methods of Evaluation

Which of these methods will students use to demonstrate proficiency in the subject matter of this course? (Check all that apply):

Written expression

Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):

Essays

Group projects

Individual projects

Problem-Solving Assignments

Quizzes

Instructional Methodology

Specify the methods of instruction that may be employed in this course

Audio-visual presentations

Class activities

Class discussions

Distance Education

Lecture

Describe specific examples of the methods the instructor will use:

- 1) **Audio Visual Presentations:** Instructor utilizes multimedia presentations to demonstrate the course topics, specifically to highlight safety and accident prevention.
- 2) **Class Activities:** Students will demonstrate understand and competency of the material by numerous practice activities, to include equipment familiarization, and demonstration of procedures. These activities will be under the direct supervision of a laboratory instructor.
- 3) **Class Discussions:** The instructor will encourage participation and learning by facilitating discussions of the course content.
- 7) **Distance Education:** Instructors will have the ability to provide the didactic portion of the course through Distance Education. They will utilize lecturing with Powerpoint slides, A/V presentations and encouraging discussions among the students via the online method.
- 13) **Lectures:** The class employs traditional lectures with Powerpoint presentations to present the material, in addition to supplemental lecture material provided through the online portal.

Representative Course Assignments

Writing Assignments

1. Students will develop written material to aid in presentation of oral hygiene instruction

Reading Assignments

1. The following topics from, Doni L Bird, Modern Dental Assisting
 - a. Preventive dentistry
 - b. Nutrition
 - c. Supplemental handouts
2. A minimum of 4 hours per week outside of regular class time doing the following:
 - a. Independent study reading Lecture topics covered in modern dental assisting

Other assignments (if applicable)

1. Chairside visual aids

Outside Assignments

District General Education

A. Natural Sciences

B. Social and Behavioral Sciences

C. Humanities

D. Language and Rationality

E. Health and Physical Education/Kinesiology

F. Ethnic Studies/Gender Studies

CSU GE-Breadth

Area A: English Language Communication and Critical Thinking

Area B: Scientific Inquiry and Quantitative Reasoning

Area C: Arts and Humanities

Area D: Social Sciences

Area E: Lifelong Learning and Self-Development

Area F: Ethnic Studies

CSU Graduation Requirement in U.S. History, Constitution and American Ideals:

IGETC

Area 1: English Communication

Area 2A: Mathematical Concepts & Quantitative Reasoning

Area 3: Arts and Humanities

Area 4: Social and Behavioral Sciences

Area 5: Physical and Biological Sciences

Area 6: Languages Other than English (LOTE)

Textbooks and Lab Manuals

Resource Type

Textbook

Description

Bird, Doni L. (2020). *Modern Dental Assisting* (13th). St. Louis, Missouri Elsevier Saunders.

Distance Education Addendum

Definitions

Distance Education Modalities

Hybrid (51%–99% online)

Faculty Certifications

Faculty assigned to teach Hybrid or Fully Online sections of this course will receive training in how to satisfy the Federal and state regulations governing regular effective/substantive contact for distance education. The training will include common elements in the district-supported learning management system (LMS), online teaching methods, regular effective/substantive contact, and best practices.

Yes

Faculty assigned to teach Hybrid or Fully Online sections of this course will meet with the EAC Alternate Media Specialist to ensure that the course content meets the required Federal and state accessibility standards for access by students with disabilities. Common areas for discussion include accessibility of PDF files, images, captioning of videos, Power Point presentations, math and scientific notation, and ensuring the use of style mark-up in Word documents.

Yes

Regular Effective/Substantive Contact

Hybrid (51%–99% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Video Conferencing	Didactic instruction will include lectures with Powerpoint presentations. Supplemental lecture material will be provided via the online portal. Students will receive online exercises and quizzes through the online portal

Examinations

Hybrid (51%–99% online) Modality

Online

Primary Minimum Qualification

DENTAL TECHNOLOGY

Additional local certifications required

Dental assisting faculty must have background in and current knowledge of dental assisting, the specific subjects they are teaching and educational theory and methodology e.g., curriculum development, educational psychology, test construction, measurement and evaluation. Faculty providing didactic instruction must have earned at least a baccalaureate degree or be currently enrolled in a baccalaureate degree program. Laboratory, preclinical and clinical faculty must be a Dental Assisting National Board "Certified Dental Assistant" or a California Registered Dental Assistant. Dentists are exempt from this requirement.

Review and Approval Dates

Department Chair

05/06/2020

Dean

05/06/2020

Technical Review

05/13/2020

Curriculum Committee

05/13/2020

Curriculum Committee

11/25/2020

CCCCO

MM/DD/YYYY

Control Number

CCC000459309

DOE/accreditation approval date
MM/DD/YYYY